SA106 Smart Awards FTTP Installation – MDU Pre-enablement

SPECIFICATION

Introduction

This qualification covers the installation of a FTTP circuit from a termination point in a Multi-Dwelling Unit (MDU) to the customer's premises. Learners are provided with the knowledge and skills to perform a pre-enablement installation activity safely and to a quality standard using an existing fibre network which has been built to the MDU. It also helps learners' awareness of compliance with health and safety legislation, installation techniques and industry good practice.

This qualification is aimed at those individuals who undertake work in a telecommunication (or similar utility) environment. This qualification tests learners' knowledge, skills and ability when installing FTTP in an MDU, ensuring correct use of tools and equipment. The qualification covers the dangers associated with the work, the safety precautions and the quality standards required whilst installing fibre.

This qualification ensures that learners involved in the installation of fibre cables and equipment are suitably trained. This qualification does not cover flat roof or rooftop working.

Key Information	
Name	Smart Awards Level 2 SA106 FTTP Installation – MDU Pre-enablement
Accreditation	This qualification is approved by: • SA106 Industry Qualification
Level	2
Duration	1 day
Guided Learning Hours (Ofqual)	8
Time/Notional Learning Hours (SQA Accreditation)	
Total Qualification Time	8
RQF - Ofqual Credit -Credit value represents the size of a unit which is determined by the learning time. One credit = 10 hours of notional learning.	1
Age	16 Plus
Qualification Type	Vocationally Related Qualification
Smart Awards Product Area	Safety Qualifications
Sector Subject Area	5.2 - Building and construction
Certification	This qualification is valid for a period of three (3) years from the date of certificate issue. To remain compliant and eligible to work on telecommunications networks, individuals must renew their qualification before the expiry date.

Network Operative Passport Scheme (NOPS)	This qualification is fully aligned with the requirements of the Network Operative Passport Scheme (NOPS). Successful completion of this qualification is recorded within the NOPS system, ensuring operatives are visible and verifiable to employers and site access systems across the industry.
Prerequisites and Entry Requirements	Learners MUST complete the following safety prerequisites for internal working in advance of this qualification: • SA020 Working Safely in Single and Multi-occupancy Dwellings Including Buildings or SA029 Working Safely in a Single Dwelling Unit. • SA031 Working Safely in a Multi-Dwelling Unit. Smart Awards will not restrict access on the grounds of prior academic attainment, employment, geographic location, or any other grounds. There are no barriers that restrict access or progression, thereby promoting equality. Approved centres are responsible for verifying that learners meet all formal qualification prerequisites prior to registration and assessment. Learners who do not hold the required prerequisite qualifications must not be enrolled until those conditions have been met.
Legal and Competency Requirements	In accordance with statutory obligations and industry best practice, the responsibility for ensuring that individuals undertaking this qualification have the necessary competencies and legal prerequisites lies with the employer, or in the case of self-employed or independent learners, with the individual themselves. Approved centres and training providers are responsible for ensuring safe and compliant delivery of this qualification in line with Smart Awards requirements but are not responsible for verifying learners' overall occupational competence beyond the defined qualification scope. Employers, learners, and training providers must ensure that adequate health and safety training has been completed for all tasks undertaken in the course of work. Subject to the requirements of the job and the outcomes of a suitable and sufficient risk assessment (as required under the *Management of Health and Safety at Work Regulations 1999*), this may include training in the following areas: • **Fire stopping:** Any person carrying out fire stopping or passive fire protection work must be competent, possessing the appropriate skills, knowledge, and experience as required by law. • **Safe working at height:** This qualification does not cover safe working at height. Learners should complete appropriate training before undertaking any work at height. • **Asbestos:** This qualification does not cover working with or the removal of asbestos. Learners must be aware of the risks associated with asbestos before undertaking any work with the potential to disturb asbestos fibres.

	• **Confined spaces:** This qualification does not qualify an individual to enter a confined space. Individuals who need to enter confined spaces must hold appropriate accreditation or qualifications. • **New Roads and Street Works Act 1991 (NRSWA):** Where work is conducted on the highway, at least one individual on site must hold the necessary Street Works accreditation to ensure compliance with NRSWA requirements. Any references within this qualification to fire stopping, working at height, asbestos, or confined spaces are for information only and intended to raise awareness of associated risks.
Liability Statement	Smart Awards accepts no liability for verifying or confirming any prerequisite competencies, qualifications, or legal requirements beyond those explicitly defined as entry criteria for this qualification. Responsibility rests solely with approved centres, training providers, employers, and individual learners to ensure compliance with all applicable statutory, regulatory, and professional standards prior to enrolment or assessment.
Mandatory units and optional routes to completion.	Learners must complete the unit FTTP Installation – MDU Pre-enablement in full to achieve this qualification. No optional units or routes are available.
Additional requirements to achieve this qualification.	None
Methods of Assessment	This qualification will be assessed through a practical and theory test. The aim of the assessment is to ensure successful learners have adequate knowledge and understanding of FTTP Installation – MDU Pre-enablement in a telecommunications environment. Assessment guidance, assessor requirements and additional qualification documentation is supplied to approved Smart Awards centres via Quartz.
Theory test	Learners are required to pass a 20-question multiple-choice test, with questions randomly selected from a secure question bank to ensure comprehensive coverage of all assessment criteria. The test is timed, and learners will have 30 minutes to complete it. All multiple-choice tests are conducted online via the Smart Awards online assessment platform.
Practical assessment	During the practical assessment, the learner will demonstrate competency by meeting the requirements for installation pre-enablement of an FTTP circuit in an MDU in accordance with industry standards and practices. The learner will have 1 hour to complete the practical assessment.
Grading	Learners will be graded (Fail or Pass) on an achievement or non-achievement basis. The final grade will be determined by collective performance in the two assessment tools (theory and practical).

	Learners are required to achieve both the theory and practical assessments to achieve the qualification. • Theory - To achieve a pass, 80% or more is required. • Practical - If one major fault is given the learner will automatically fail. • Learners must receive fewer than Seven minor faults to pass the practical assessment. If there are major health and safety failures due to learners' actions or understanding, the assessment MUST be stopped. The learner should be taken to a suitable area to be explained the reason for stopping the assessment and that their assessment is deemed as failed. Guidance on the major failures that should result in stopping the assessment is provided in the practical assessment.
Reasonable adjustments and special considerations	Smart Awards approved centres that have learners with specific requirements should refer to the Smart Awards Reasonable Adjustments and Special Considerations Policy and Procedure. This document outlines the support available to ensure fair access to assessments. It can be found on the Smart Awards website at www.smartawards.co.uk
Recognition of Prior Learning	Smart Awards is committed to supporting Recognition of Prior Learning (RPL) and has established a dedicated policy and set of procedures to guide and assist approved centres in its implementation. The full policy is available on the Smart Awards website at www.smartawards.co.uk
Required resources and site requirements for delivering this Qualification	To ensure a safe and effective learning and assessment environment, the following site requirements must be met for the delivery of the Smart Awards Level 2 SA106 Smart Awards FTTP Installation – MDU Pre-enablement qualification: • Access to a suitable training area that simulates real-world telecoms environments. • Personal Protective Equipment (PPE) must be worn by all learners and assessors, including safety helmets, high-visibility clothing, gloves, and appropriate footwear. • The site must comply with current health and safety regulations, including safe access/egress, signage, and emergency procedures. • Adequate first aid provision must be available on-site throughout the training and assessment period. • The site must provide access to classroom or indoor facilities for the delivery of theoretical content and the completion of the online multiple-choice assessment. **Site Requirements** • A simulated worksite should reflect a real-world MDU FTTP pre-enablement situation as far as possible, allowing the learner to route new fibre cables from a termination point to a customer's premises.

	• Training centres may adapt the layout, materials, and scale to suit their facilities, provided all required elements and obstacles are included, and the scenario reflects a realistic working environment.

Qualification Structure

The Smart Awards Level 2 SA106 Smart Awards FTTP Installation – MDU Pre-enablement qualification consists of one mandatory unit, which learners must complete to achieve the qualification. Attainment at Level 2 demonstrates the learner's ability to apply relevant knowledge, skills, and procedures to carry out clearly defined tasks and resolve straightforward problems with appropriate direction or supervision.

• Smart Awards Level 2 SA106 Smart Awards FTTP Installation – MDU Pre-enablement								
Minimum TQT for this pathway = 8 **Minimum number of credits = 1** **Minimum number of units = 1**				**Minimum number of GLH = 8** **Minimum number of assessment time = 1.5** **Other learning time = 0**				
Unit Number	**Unit title**	**Level**	**M/O**	**GLH**	**ASS**	**OTHER LEARNING**	**TQT**	**CREDITS**
	FTTP Installation – MDU Pre-enablement	2	M	8	1.5	0	8	1

Learner Support and Assessment Conditions

Learners will have access to support throughout the training period via their trainer. Trainers are responsible for ensuring that each learner is adequately prepared and competent before presenting them for assessment.

No support or assistance may be given to the learner during either the theory or practical assessments, to maintain the integrity and validity of the qualification.

Qualification objectives and requirements

This qualification confirms that the learner has demonstrated the required competence to perform the installation pre-enablement of an FTTP circuit in an MDU in accordance with industry standards and practices. To successfully obtain this qualification, the learners will need to demonstrate the knowledge and abilities set out in the learning outcomes and assessment criteria.

Unit Title:	Smart Awards FTTP Installation – MDU Pre-enablement
Unit Reference Number:	SA106
Learning outcomes	**Assessment criteria**
The learner will:	The learner can:
1. Be able to work safely in an MDU environment	1.1. Identify the hazards and risks associated with the working area and the proposed work. 1.2. Complete work in a way which maintains health and safety and is consistent with relevant legislation, building regulations, and industry good practice.

	1.3. Select and use correct access equipment (e.g., step ladder, podium steps) and personal protective equipment (PPE). 1.4. Demonstrate safe working in shared spaces such as corridors, riser cupboards, and plant rooms. 1.5. Select and use the correct tools and equipment for the task, ensuring they are safe, fit for purpose, and operated in line with manufacturer's instructions and industry good practice.
2. Be able to install a fibre cable from a main termination point to a customer point of entry	2.1. Interpret the job pack and building layout to identify the most effective cable route. 2.2. Agree the proposed route and obtain any required permissions prior to commencing work. 2.3. Inspect access routes, containment, and fixings before installation. 2.4. Prepare the work area, including signage and guarding where required. 2.5. Route fibre cable through horizontal and vertical containment (e.g., trunking, conduit, tray, riser). 2.6. Apply correct bend radius, segregation from other services, and fire-stopping requirements. 2.7. Terminate the cable at the agreed customer point of entry, ensuring fibre cleanliness. 2.8. Apply appropriate labelling and update installation records. 2.9. Test the installed cable for service readiness in line with organisational procedures.
3. Be able to work with realistic building obstacles and access constraints.	3.1. Demonstrate safe cable routing through/around doors, including fire doors. 3.2. Route cable through or around windows and associated wall penetrations. 3.3. Demonstrate safe working within false ceilings, maintaining safe and careful manual handling of tiles/panels. 3.4. Access riser cupboards and route cable vertically. 3.5. Seal any floor or wall penetrations to required standards. 3.6. Install the fibre cable using correct fixings, maintaining minimum bend radius and avoiding strain or damage.
4. Know relevant health and safety legislation and industry good practice for MDU work	4.1. Outline the key health and safety legislation, building regulations, and industry standards relevant to MDU installation. 4.2. State safe working practices for working in shared/public spaces. 4.3. Describe how to use and maintain tools, equipment, and PPE.

	4.4. Identify emergency planning procedures relevant to MDU work areas. 4.5. Recognise the importance of fibre cleanliness and cleaning fibre connectors. 4.6. State the importance of accurate labelling and documentation in MDU installations. 4.7. State the actions to take if unexpected damage, a service strike, or a safety incident occurs.
5. Know how to install a fibre cable from a main termination point to a customer point of entry, safely and to a quality standard.	5.1. Describe the process for planning an MDU cable route. 5.2. State the requirements for bend radius, cable support, and segregation from other services. 5.3. Outline the correct methods and fixings for attaching cables in shared areas. 5.4. Outline the fire-stopping requirements for penetrations in MDUs. 5.5. Describe the checks, including testing, to be carried out after installation to confirm compliance with quality and safety standards.